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L3: Entry 2 of 10

File: USPT

Nov 26, 2002

US-PAT-NO: 6485418

DOCUMENT-IDENTIFIER: US 6485418 B2

TITLE: Health monitoring system

DATE-ISSUED: November 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yasushi; Mitsuo	Tokyo			JP
Yanagidaira; Masatoshi	Tokyo			JP

US-CL-CURRENT: 600/300; 128/903, 128/920, 600/301, 600/515

ABSTRACT:

A health monitoring system for communication between at least one terminal-device that moves with a person whose health is monitored and a first center device. The terminal device detects health parameters of the person, and diagnoses of the condition of health of the person in accordance with a result of the detection, and transmits the result of the diagnosis to the first center device. The first center device stores the historical diagnosis information concerning the person, receives the result of the diagnosis from the terminal device, judges whether detailed data concerning the condition of health of the person is needed in accordance with the result of the diagnosis and the historical diagnosis information, and issues a request command of the detailed data to the terminal device when it judges that the detailed data is needed.

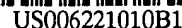
6 Claims, 11 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 10

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(10) Patent No.: US 6,221,010 B1
(45) Date of Patent: Apr. 24, 2001

(57) **ABSTRACT**

A home medical supervision and monitoring system with computer-controlled base station provides medical supervision of an individual and controls medical monitoring, environmental, and safety devices. Modular electronic components, a real-time operating system and multilevel application software provide decision-making choices to inform a monitoring service or the like if a medical crisis is occurring or an adverse environmental or safety condition exists.

Subsystems include medical monitoring devices to control and monitor specific medical conditions. If a crisis is detected, predefined physician instructions are implemented. A daily medical supervision subsystem records messages to be played back at preset intervals to supervise the individual's daily medical, safety or environmental activities under control of application software. A personal distress call subsystem can contact a monitoring service by pushing a distress button or by voice activating a communication circuit via a speaker telephone. Safety and environmental sensing devices such as motion, fire, smoke, etc., detect abnormal conditions and notify the base station while an archiving subsystem collects and processes information on a hard drive for later retrieval. The system has an optional medication-dispensing cabinet that will open a compartment at a prescribed time containing prescribed medication.

8 Claims, 6 Drawing Sheets

Figure 1 is a block diagram illustrating the connection of various sensors to a common RF signal line. The diagram shows four main categories of sensors, each represented by a rectangular box. The connections are as follows:

- MEDICAL MONITORING DEVICES:** Connected to the RF line via a connection labeled '7'.
- PERSONAL COMMUNICATION:** Connected to the RF line via a connection labeled '38'.
- ENVIRONMENTAL SENSORS:** Connected to the RF line via a connection labeled '39'.
- SAFETY SENSORS:** Connected to the RF line via a connection labeled 'RF'.

The RF line is represented by a horizontal line at the top, with multiple 'RF' labels indicating the signal type. The connections are shown as lines branching from the RF line to each sensor category box.

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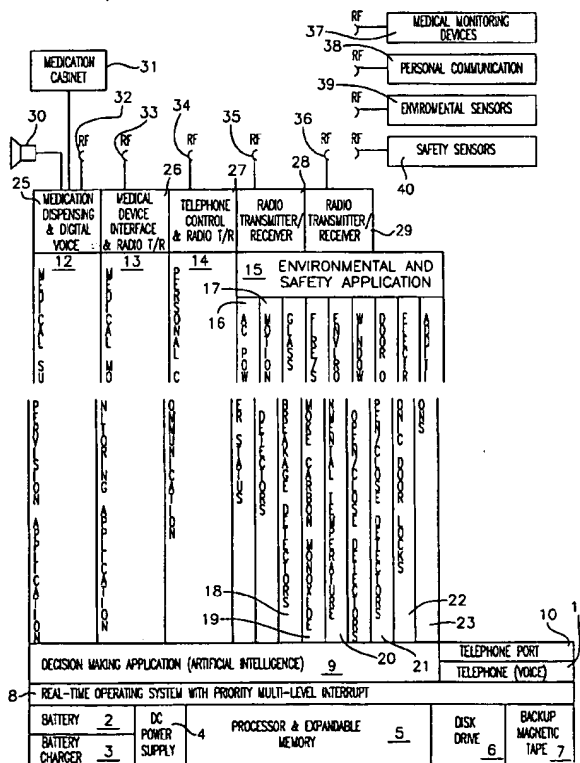
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